ABSTRACT

An authentication communication system includes an
storage medium having an area for storing digital
information and an access device for reading/writing
digital information from/into the area. The access device
authenticates whether the storage medium is authorized
according to a challenge-response authentication protocol
in which scrambled access information generated by
scrambling the access information which shows the area
is used. The storage medium authenticates whether the
access device is authorized. When the access device and
the storage medium have authenticated each other as
authorized devices, the access device reads/writes digital
information from/into the area in the storage medium
according to the access information separated from the
scrambled access information by the access device.

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